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Substitute for 449/PTO Information Disclosure Statement by Applicant <i>(Use as many sheets as necessary)</i>				Complete If Known	
				Application Number	10/648,536
				Filing Date	August 25, 2003
				First Named Inventor	Lockerbie
				Art Unit	1651
				Examiner Name	Hanley, Susan Marie
				Attorney Docket No.	B0175-US02
Sheet	1	Of	1		

[illegible]

Examiner Signature	/Jae W. Lee/ (01/21/2007)	Date Considered	
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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. B0175-US02	SERIAL NO. 10/648,536
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT Lockerbie et al	
(Use several sheets if necessary)	FILING DATE August 25, 2003	GROUP 1743

U.S. PATENT DOCUMENTS							
EXAMINE R INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
JWL		2002/0022215	2/21/02	Sobsey et al			
		Re 32874 of 4474153	02/21/89 05/08/84	Rock et al.			
		683690	10/1901	Johnson			
		1733239	10/29	Roberts			
		1961700	6/5/34	Moehler			
		2056614	10/06/36	Moehler			
		2212230	08/20/40	Goldmann			
		2212230	8/20/40	Goldman			
		2212330	8/20/40	Thomas			
		2340890	2/8/44	Lang t al			
		2417143	3/11/47	Tishler et al			
		2786014	3/1957	Tullis			
		3057865	10/9/62	Bardos et al			
		3456053	07/15/69	Crawford			
		3629071	12/21/71	Sekhar			
		3683177	8/172	Veloz			
		3683183	8/72	Vizzini et al			
		3705985	12/12/72	Manning et al			
		3776694	12/04/73	Leittl			
		3852032	12/03/74	Urbach			
		3864081	2/75	Logrippo			
		3874384	4/1/75	Deindoerfer et al			
		3894236	7/75	Hazelrigg			
		3926556	12/16/75	Boucher			
		3927325	12/75	Hungate et al			
		4061537	12/1977	Seiler et al.			
		4112070	9/1978	Harmening			
		4124598	11/07/78	Hearst et al.			
		4139348	2/13/79	Swartz			
		4169204	09/25/79	Hearst et al.			
		4173631	11/1979	Graham et al			
		4181128	1/1/80	Swartz			
		4196281	04/01/80	Hearst et al.			
		4264601	4/1981	Trachewsky			
JWL		4267269	5/12/81	Grodc et al.			

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U.S. PATENT DOCUMENTS							
EXAMINE R INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
JWL		4312883	01/26/82	Baccichetti et al.			
		4321918	03/30/82	Clark II			
		4321919	03/30/82	Edelson			
		4336809	06/29/82	Clark			
		4381004	4/26/83	Babb			
		4390619	6/28/83	Harmening-Pittiglio			
		4398031	08/09/83	Bender et al.			
		4398906	08/16/83	Edelson			
		4402318	09/06/83	Swartz			
		4407282	10/83	Swartz			
		4421987	12/20/83	Herold			
		4424201	1/03/84	Valinsky et al			
		4428744	01/31/84	Edelson			
		4432750	2/21/84	Estep			
		4456512	06/26/84	Bieler et al.			
		4457918	7/84	Holick et al			
		4464166	08/07/84	Edelson			
		4464166	08/07/84	Edelson			
		4467206	8/21/84	Taylor et al			
		4474153	10/1984	Hanamoto			
		4481167	11/06/84	Ginter et al			
		4493981	1/15/85	Payne			
		4568328	02/04/86	King			
		4572899	2/25/86	Walker et al.			
		4573960	03/40/86	Goss			
		4573961	03/40/86	King			
		4573962	3/4/86	Troutner			
		4576143	03/18/86	Clark III			
		4578056	03/25/86	King et al.			
		4585735	4/29/86	Meryman et al.			
		4596547	6/24/86	Troutner			
		4604356	08/05/86	Blake II			
		4608255	8/86	Kahn et al			
		4612007	09/16/86	Edelson			
		4613322	09/23/86	Edelson			
		4614190	09/30/86	Stanco et al.			
JWL		4623328	111886	Hartranft			

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT: Lockerbie et al	
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U.S. PATENT DOCUMENTS						
EXAMINE R INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
JWL	4626431	12/2/86	Batchelor et al.			
	4642171	2/10/87	Sekine et al			
	4645649	2/24/87	Nagao			
	4648992	3/10/87	Graf et al			
	4649151	03/10/87	Dougherty et al.			
	4651739	3/87	Oseroff et al			
	4675185	6/23/87	Kandler et al.			
	4683195	7/28/87	Mullis et al			
	4683202	7/28/87	Mullis			
	4683889	08/04/87	Edelson			
	4684521	08/04/87	Edelson			
	4693981	09/15/87	Wieschahn et al.			
	4695460	09/22/87	Holme			
	4695460	9/1987	Holme			
	4704352	11/3/87	Miripol et al.			
	4708715	11/24/87	Troutner et al			
	4726949	02/23/88	Miripol et al.			
	4727027	02/23/88	Wieschahn et al.			
	4737140	04/12/88	Lee et al.			
	4748120	05/31/88	Wieschahn			
	4769318	9/9/88	Hamasaki et al.			
	4775625	10/04/88	Sieber			
	4788038	11/29/88	Matsunaga			
	4828976	5/9/89	Murphy			
	4831268	05/16/89	Fisch et al.			
	4833165	05/23/89	Louderback			
	4861704	08/29/89	Reemtsma et al.			
	4866282	09/12/89	Miripol et al.			
	4878891	11/07/89	Judy et al.			
	4880788	11/14/89	Moake et al			
	4915683	04/10/90	Sieber			
	4921473	05/01/90	Lee et al.			
	4930516	6/90	Alfano et al			
	4946438	8/7/90	Reemtsma et al			
	4948980	08/14/90	Wedekamp			
	4950665	08/21/90	Floyd			
JWL	4950665	08/21/90	Floyd			

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 80175-US02	SERIAL NO. 10/648,536
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT Lockerbie et al	
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U.S. PATENT DOCUMENTS						
EXAMINE R INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
JWL	4952812	08/28/90	Miripol et al.			
	4960408	10/02/90	Klainer et al.			
	4961928	10/09/90	Holme et al.			
	4978688	12/18/90	Louderback			
	4986628	1/91	Lozhenko et al			
	4992363	02/12/91	Murphy			
	4994367	02/19/91	Bode et al.			
	4998931	03/12/91	Slichter et al.			
	4999375	03/12/91	Bachynsky et al.			
	5011695	04/30/91	Dichtelmuller et al.			
	5017338	05/21/91	Surgenor			
	5020995	6/4/91	Levy			
	5030200	07/09/91	Judy et al.			
	5039483	08/13/91	Sieber et al.			
	5041078	08/20/91	Matthews et al.			
	5089146	02/18/92	Carmen et al.			
	5089384	2/18/92	Hale			
	5092773	3/3/92	Levy			
	5114670	5/92	Duffey			
	5114957	05/19/92	Hendler et al.			
	5120649	06/09/92	Horowitz et al.			
	5123902	6/92	Muller et al			
	5133932	07/28/93	Gunn et al.			
	5147776	09/15/92	Kocmer Jr.			
	5149718	9/22/92	Meruelo et al.			
	5150705	09/29/92	Stinson			
	5166528	11/24/92	LeVay			
	5184020	02/02/93	Hearst et al.			
	5185532	2/9/93	Zabsky et al			
	5192264	3/93	Fossel			
	5211960	5/1993	Babior			
	5216251	6/1/93	Maschke			
	5229081	7/20/93	Suda			
	5232844	08/03/93	Horowitz et al.			
	5234808	08/10/93	Murphy			
	5236716	08/17/93	Carmen et al.			
JWL	5247178	09/21/93	Ury et al.			

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U.S. PATENT DOCUMENTS							FILING DATE IF APPROPRIATE
EXAMINE R INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB- CLASS		
JWL	5248506	09/28/93	Holme et al.				
	5250303	10/5/93	Meryman et al.				
	5258124	11/2/93	Bolton et al				
	5269946	12/14/93	Goldhaber et al				
	5273713	12/28/93	Levy				
	5281392	1/1994	Rubinstein				
	5288605	02/22/94	Lin et al.				
	5288647	2/22/94	Zimlich Jr. et al				
	5290221	03/01/94	Wolf Jr. et al.				
	5300019	04/05/94	Bischof et al.				
	5304113	04/19/94	Sieber et al.				
	5318023	6/94	Vari et al				
	5340716	08/23/94	Ullman et al.				
	5342752	8/30/94	Platz et al.				
	5344752	09/06/94	Murphy				
	5344918	9/6/94	Dazey et al				
	5358844	10/25/94	Stossel et al.				
	5360734	11/01/94	Chapman et al.				
	5366440	11/22/94	Fossel				
	5372929	12/13/94	Cimino				
	5376524	12/27/94	Murphy et al.				
	5378601	01/03/95	Gepner-Puszkun				
	5399719	3/21/95	Wollowitz et al				
	5418130	05/23/95	Platz et al.				
	5419759	5/95	Naficy				
	5427695	6/27/95	Brown				
	5433738	07/18/95	Stinson				
	5459030	10/17/95	Lin et al.				
	5466573	11/14/95	Murphy et al.				
	5474891	12/12/95	Murphy				
	5482828	01/09/96	Lin et al.				
	5487971	01/30/96	Holme et al.				
	5494590	2/27/96	Smith et al.				
	5503721	04/02/96	Hearst et al.				
	5512187	4/1996	Buchholz et al.				
	5516629	05/14/96	Park et al.				
JWL	5527704	06/18/96	Wolf Jr. et al.				

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT Lockerbie et al	
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U.S. PATENT DOCUMENTS						
EXAMINE R INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
JWL	5536238	07/16/96	Bischof			
	5545516	08/13/96	Wagner			
	5547635	8/96	Duthie Jr.			
	5550111	8/96	Suhadolnik et al			
	5556958	09/17/96	Carroll et al.			
	5556993	09/17/96	Wollowitz et al.			
	5557098	9/17/96	D'Silva			
	5559250	9/24/96	Cook et al			
	5569579	10/29/96	Murphy			
	5571666	11/05/96	Floyd et al.			
	5578736	11/26/96	Wollowitz et al			
	5585503	12/17/96	Wollowitz et al			
	5587490	12/24/96	Goodrich Jr. et al.			
	5593823	01/14/97	Wollowitz et al.			
	5597722	01/28/97	Chapman et al.			
	5607924	03/04/97	Magda et al.			
	5618662	4/8/97	Lin et al			
	5622867	04/22/97	Livesey et al.			
	5624435	4/29/97	Furumoto et al			
	5624794	4/29/97	Bitensky et al.			
	5625079	4/29/97	Wollowitz et al			
	5628727	05/13/97	Hakky et al.			
	5639376	06/17/97	Lee et al.			
	5639382	6/17/97	Brown			
	5643334	07/01/97	Eckhouse et al.			
	5652096	7/29/97	Cimino			
	5653887	08/05/97	Wahl et al.			
	5654443	8/5/97	Wollowitz et al			
	5656154	8/1997	Meryman			
	5656498	8/1997	Iijima et al.			
	5658530	08/19/97	Dunn			
	5658722	08/19/97	Margolis-Nunno et al.			
	5683661	11/04/97	Hearst et al.			
	5683768	11/04/97	Shang et al			
	5686436	11/11/97	Van Dyke			
	5688475	11/97	Duthie Jr.			
JWL	5691132	11/25/97	Wollowitz et al.			

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT Lockerbie et al	
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U.S. PATENT DOCUMENTS						
EXAMINE R INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
JWL	5698524	12/16/97	Mach et al			
	5698677	12/16/97	Eibl et al			
	5702684	12/30/97	McCoy et al			
	5707401	1/98	Talmore			
	5709653	1/98	Leone			
	5709991	1/20/98	Lin et al			
	5709992	1/1998	Rubinstein			
	5712085	1/27/98	Wollowitz et al			
	5712086	01/27/98	Horowitz et al.			
	5714328	2/98	Magda et al			
	5736313	4/7/98	Spargo et al.			
	5739013	4/98	Budowsky et al			
	5753428	5/19/98	Yuasa et al.			
	5756553	5/26/98	Iguchi et al			
	5769839	6/23/98	Carmen et al.			
	5772960	6/30/98	Ito et al			
	5783093	7/21/98	Holme			
	5789150	08/04/98	Margolis-Nunno et al.			
	5789151	8/4/98	Bitensky et al.			
	5789601	08/04/98	Park et al.			
	5798238	08/25/98	Goodrich Jr. et al.			
	5798523	08/25/98	Villeneuve et al.			
	5817519	10/6/98	Zelmanovic et al			
	5827644	10/27/98	Floyd et al.			
	5834198	11/10/98	Famulok et al.			
	5840252	11/24/98	Giertych			
	5843459	12/01/98	Wang et al.			
	5846961	12/08/98	Van Dyke			
	5854967	12/29/98	Hearst et al.			
	5866074	02/02/99	Chapman et al.			
	5869701	02/09/99	Park et al.			
	5871900	02/16/99	Wollowitz et al.			
	5876676	03/02/99	Stossel et al.			
	5899874	5/4/99	Jonsson			
	5906915	05/25/99	Payrat et al.			
	5908742	06/01/99	Lin et al.			
JWL	5919614	7/1999	Livesey et al.			

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U.S. PATENT DOCUMENTS							
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JWL		5922278	07/13/99	Chapman et al.			
		5935092	8/10/99	Sun et al.			
		5955256	9/21/99	Sowemimo-Coker et al			
		5955257	9/21/99	Burger et al.			
		5965349	10/12/99	Lin et al			
		5972593		Wollowitz et al			
		5976884	11/02/99	Chapman et al.			
		5981163	11/9/99	Horowitz et al			
		6004741	12/21/99	Wollowitz et al			
		6004742	12/21/99	Wollowitz et al			
		6017691	1/25/00	Wollowitz et al			
		6020333	02/01/00	Berque			
		6060233	5/2000	Wiggins			
		6063624	5/2000	Kandler et al.			
		6077659	6/20/00	Ben-Hur et al			
		6087141	7/2000	Margolis-Nunno et al			
		6093725	7/25/00	Cook et al			
		6106773	8/22/00	Miekka et al			
		6133460	10/17/00	Wollowitz et al			
		6143490	11/7/00	Cook et al			
		6171777	1/9/01	Cook et al			
		6177441	1/23/01	Cook et al			
		6194139	2/27/01	Wollowitz et al			
		6197207	3/6/01	Chapman et al			
		6214534	4/10/01	Horowitz et al			
		6218100	4/17/01	Wollowitz et al			
		6258319	7/10/01	Hearst et al			
		6258577	7/10/01	Goodrich et al			
		6268120	7/31/01	Platz et al			
		6270952	8/7/01	Cook et al			
		6277337	8/21/01	Goodrich et al			
		6410219	6/25/02	Cook et al			
		6413714	7/2/02	Margolis-Nunno et al			
		6420570	7/16/02	Wollowitz et al			
		6433343	8/13/02	Cimino et al			
JWL		6455286	9/24/02	Wollowitz et al			

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U.S. PATENT DOCUMENTS						
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JWL	6461567	10/8/02	Hearst et al			
↓	6469052	10/22/02	Wollowitz et al			
	6503699	1/7/03	Wollowitz et al			
	6514987	2/4/03	Cook et al			
	6544727	4/8/03	Hei			
	6565802	5/20/03	Hanley et al			
	6576201	6/10/03	Wollowitz et al			
	6586749	7/1/03	Cimino et al			
↓	6596230	7/22/03	Wollowitz et al			
	6680025	1/20/04	Hearst et al			
JWL	6686480	2/3/04	Wollowitz et al			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
	DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
JWL	EP 0066886	08.06.82	EP				
↓	EP 0108588	5/1984	EP				
	EP 0124363	27.04.84	EP				
	EP 0184331	11.06.86	EP				
	EP 0196515	13.03.86	EP				
	EP 0491757	08.09.90	EP				
	EP 0510185	11.12.96	EP				
	EP 0510185	12/1996	EP				
	EP 0525 138	20.12.91	EP				
	EP 0590514	4/1994	EP				
	EP 0679398	02.11.95	EP				
	EP 0754461	1/1997	EP				
	EP 0801072	15.10.97	EP				
	FR2674753	09.10.92	FR				
	FR2715303	28.07.95	FR				
	FR2718353	13.10.95	FR				
	GB2034463	6/1980	UK				
	WO00/04930	2/3/00	PCT				
↓	WO00/11946	09.03.00	PCT				
	WO01/28599	4/26/01	PCT				
JWL	WO02/02153	1/10/02	PCT				

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT Lockerbie et al	
(Use several sheets if necessary)	FILING DATE August 25, 2003	GROUP 1743

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATIO N
JWL		WO02/30190	4/18/02	PCT			
		WO83/02328	7/1983	PCT			
		WO85/02116	5/1985	PCT			
		WO88/10087	29/12/88	PCT			
		WO89/06702	27.07.89	PCT			
		WO90/00059	11.01.90	PCT			
		WO90/10461	9/20/90	PCT			
		WO91/02529	07.03.91	PCT			
		WO92/08348	29.05.92	PCT			
		WO92/08349	29.05.92	PCT			
		WO92/11057	09.07.92	PCT			
		WO92/17173	09/10/92	PCT			
		WO94/07426	14.04.94	PCT			
		WO94/07499	14.04.94	PCT			
		WO95/02325	26.01.95	PCT			
		WO95/11028	27.04.95	PCT			
		WO95/12973	18.05.95	PCT			
		WO95/16348	22.06.95	PCT			
		WO96/14740	23.05.96	PCT			
		WO96/14741	23.05.96	PCT			
		WO97/07674	06.03.97	PCT			
		WO97/18844	5/1997	PCT			
		WO97/22245	26/6/97	PCT			
		WO97/36581	09.10.97	PCT			
		WO97/36634	09.10.97	PCT			
		WO98/22150	5/28/98	PCT			
		WO98/30545	16.07.98	PCT			
		WO98/31219	23.07.98	PCT			
		WO98/41087	9/1998	PCT			
		WO98/51147	11/1998	PCT			
JWL		WO99/11305	11.03.99	PCT			

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)	
JWL	International Search Report for corresponding application PCT/US01/17875
JWL	International Search Report for corresponding application PCT/US03/26770
JWL	Abdursashidova et al, "Polynucleotide-protein interactions in the translation system. Identification of proteins interacting with tRNA in the A- and P-sites of E. Coli ribosomes," 1979 <i>Nucleic Acids Res.</i> 6(12):3891-3909.
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